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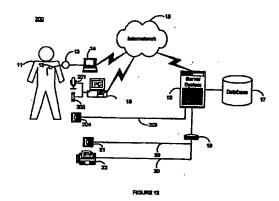
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- (54) System and method for providing normalized voice feedback from an individual patient in an automated collection and analysis patient care system
- (57)A system 200 and a method for providing normalized voice feedback from an individual patient 11 in an automated collection and analysis patient care system 10 are described. A set of collected measures 50 retrieved on a substantially regular basis is periodically received from a medical device 12 having a sensor for monitoring at least one physiological measure of an individual patient 11. The collected measures set includes individual measures which each relate to patient information recorded by the medical device. The collected measures set 50 are stored into a patient care record for the individual patient within a database 17. The database is organized to store one or more patient care records which each include a plurality of the collected measures sets. Voice feedback is spoken by the individual patient into a remote client 18 substantially contemporaneous to the collection of an identifiable device measures set. The voice feedback is processed into a set of quality of life measures which each relate to patient self-assessment indicators. The identified collected device measures set and the quality of life measures set are received and stored into the patient care record for the individual patient within the database. The identified collected device measures set, the quality of life measures set, and one or more of the collected device measures sets in the patient care record for the individual patient are analyzed relative to one or more other collected device measures sets stored in the data-

base server to determine a patient status indicator 54.





### **EUROPEAN SEARCH REPORT**

Application Number EP 00 20 2603

Category	Citation of document with of relevant pas	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C.17)	
X	WO 98 07142 A (COH 19 February 1998 (1 * page 2, line 2 - * page 17, line 32 figures 2-5 *	1-23	G06F19/00 A61B5/00		
X	US 5 357 427 A (LANGEN ET AL) 18 October 1994 (1994-10-18)		1,12		
A		5 - column 10, line 47;	2-11, 13-23		
A	US 5 544 661 A (DA) 13 August 1996 (199 * column 1, line 13	1,12			
A	US 5 390 238 A (KII 14 February 1995 (1 * column 2, line 57 figures 1-5 *	1,12			
A	EP 0 342 859 A (HEALTH TECH SERVICES CORP) 23 November 1989 (1989-11-23) * page 2, line 43 - page 7, line 17; figures 1-4 *		1,12	TECHNICAL FIELDS SEARCHED (IM.CI.7) G06F A61B G10L	
	The present search report has	been drawn up for all claims			
	Place of search THE HAGUE	Date of completion of the search 15 December 200(	) Sch	Schenkels, P	
X : part Y : part	ATEGORY OF CITED DOCUMENTS icutarly relevant if taken alone icutarly relevant if combined with anouncert of the same category	T: theory or principle: E: earlier patent de after the filling of ther D: document cited	ple underlying the ocument, but publicate	invention ished on, or	

### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 20 2603

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15-12-2000

Patent documen cited in search rep		Publication date		Patent family member(s)	Publication date	
WO 9807142	Α	19-02-1998	US EP	6014626 A 0927417 A	11-01-2000 07-07-1999	
US 5357427	Α	18-10-1994	NONE			
US 5544661	A	13-08-1996	NONE			
US 5390238	Α	14-02-1995	NONE			
EP 0342859	A	23-11-1989	US AT AU CA DE DE JP JP US US	4933873 A 140326 T 622175 B 3459889 A 1336842 A 68926801 D 68926801 T 1700087 C 2142533 A 3067686 B 5442728 A 5142484 A 5868135 A	12-06-199 15-07-199 02-04-199 16-11-198 29-08-199 14-08-199 12-12-199 14-10-199 31-05-199 23-10-199 15-08-199 25-08-199	

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